

We claim:

1           1. Method of monitoring a fluid pressure of a tire with a sensor, disposed in conduit  
2 assemblies for conducting fluid to or from the tire, of a tire pressure management system  
3 comprising:  
4           providing a pulse of compressed fluid to the conduit assemblies, unless a counter exceeds  
5 a count, the fluid in the conduit assemblies thereafter having a conduit pressure;  
6           wherein the pulse has a duration that corresponds to a ratio defined by a first  
7 predetermined amount divided by a second predetermined amount.

1           2. Method of claim 1, wherein the first predetermined amount corresponds to a pressure  
2 shortfall with respect to the target pressure in the conduit assemblies.

1           3. Method of claim 1, wherein the first predetermined amount corresponds to a target  
2 pressure less the conduit pressure prior to said providing.

1           4. Method of claim 1, wherein the second predetermined amount corresponds to a  
2 pressure increase realized from the a pulse of compressed fluid introduced into the conduit  
3 assemblies prior to said providing.

1           5. Method of claim 1, wherein the second predetermined amount corresponds to the  
2 conduit pressure prior to said providing less a pressure increase realized from a pulse of  
3 compressed fluid introduced to the conduit assemblies prior to said providing.

1           6. Method of claim 1, wherein the duration corresponds to a duration of a pulse of  
2 compressed fluid introduced to the conduit assemblies prior to said providing.

1           7. Method of claim 1, further comprising repeating said providing until the conduit  
2 pressure equals or exceeds the target pressure.

1 8. Method of claim 1, further comprising repeating said providing until the conduit  
2 assemblies and the tire are in fluid communication or equilibrium.

1 9. Method of claim 1, wherein said providing increases fluid pressure in the tire or is  
2 sufficient to initiate fluid communication among, via a valve interposed between, the conduit  
3 assemblies and the tire.

1 10. Method of claim 1, further comprising determining whether the difference between  
2 the conduit pressure and the pressure of the fluid in the conduit following a stabilization period  
3 exceeds a limit.

1 11. Method of claim 10, wherein the stabilization period is sufficient to ascertain  
2 whether a leak exists in the conduit assemblies.

1 12. Method of claim 10, further comprising logging a leak fault if the difference exceeds  
2 the limit.

1 13. Method of claim 10, further comprising defining the current tire pressure as equal to  
2 the conduit pressure if the difference does not exceed the limit.

1 14. Method of claim 1, wherein the counter registers each occurrence of said providing.

1 15. Method of claim 1, further comprising clearing the counter when the conduit pressure  
2 equals or exceeds the predetermined amount.